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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/777,666	02/10/2004	F. Michael Hosking	SD7455/S102182	5867	
20567	7590 09/0	2005	EXAM	INER	
SANDIA CORPORATION			TRAN	TRAN, LEN	
P O BOX 580 MS-0161	00		ART UNIT	PAPER NUMBER	
ALBUQUER	QUE, NM 8718	-0161	1725		

DATE MAILED: 09/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			<i>U</i> N			
	Application No.	Applicant(s)				
	10/777,666	HOSKING ET AL.				
Office Action Summary	Examiner	Art Unit				
	Len Tran	1725				
The MAILING DATE of this communication Period for Reply	appears on the cover shee	t with the correspondence address	,			
A SHORTENED STATUTORY PERIOD FOR REL WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNICATION IN THE PROPERTY OF THE COMMUNICATION OF THE PROPERTY OF THE PROPE	INICATION. y a reply be timely filed MONTHS from the mailing date of this communicate ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10) February 2004.					
2a) This action is FINAL . 2b) ⊠ T	his action is non-final.					
3) Since this application is in condition for allow	wance except for formal n	natters, prosecution as to the merits	is			
closed in accordance with the practice unde	er <i>Ex par</i> te <i>Quayle</i> , 1935 (C.D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-14</u> is/are pending in the applicati	ion.					
4a) Of the above claim(s) is/are without	drawn from consideration.					
5)⊠ Claim(s) <u>14</u> is/are allowed.						
6)⊠ Claim(s) <u>1-8 and 11-13</u> is/are rejected.						
7)⊠ Claim(s) <u>9 and 10</u> is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9) The specification is objected to by the Exam	iner					
· · · · · · · · · · · · · · · · · · ·		to by the Examiner.				
	D) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the con	•	• • • • • • • • • • • • • • • • • • • •	I(d).			
11) The oath or declaration is objected to by the	•		` '			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:		C. § 119(a)-(d) or (f).				
1. Certified copies of the priority docume						
2. Certified copies of the priority docume		· · · ———				
3. Copies of the certified copies of the p		en received in this National Stage				
application from the International Bur * See the attached detailed Office action for a l	, , , , , , , , , , , , , , , , , , , ,	not received				
See the attached detailed Office action for a t	ist of the certified copies t	iot received.				
Attachment(s)		0 (070				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		ew Summary (PTO-413) No(s)/Mail Date	ļ			
3) X Information Disclosure Statement(s) (PTO-1449 or PTO/SB/	(08) 5) 🔲 Notice	of Informal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	·				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-8 and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heitman et al (US 5,102,031).

Heitman et al disclose a method for brazing by applying alternating current across a workpiece to resistively heat a pre-placed filler metal to a temperature sufficient to melt the filler metal, wherein the material for the workpice is nickel alloy and the filler is copper (col. 2, line 51 – col. 3, line 52) (col. 7, lines 5-19).

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Heitman et al fail to teach a discontinuity on the workpiece and wherein current applied is less than 5000 amps and less than 5 volts.

However, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to braze on a workpiece with a discontinuity, since braze is either used in repairing the workpiece or joining workpieces. In addition, the current and voltage being less than 5000 amps and 5 volts, respectively, would have been obvious, since a sufficient current and voltage are needed to melt the filler material.

Allowable Subject Matter

4. Claims 9-10 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior arts of record fail to teach residence time between 3 and 10 seconds.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (571) 272-1184. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Len Tran

Examine

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August 31, 2005